



JOINT STRIKE FIGHTER PROGRAM BRIEFING

7 November 2002

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VISION

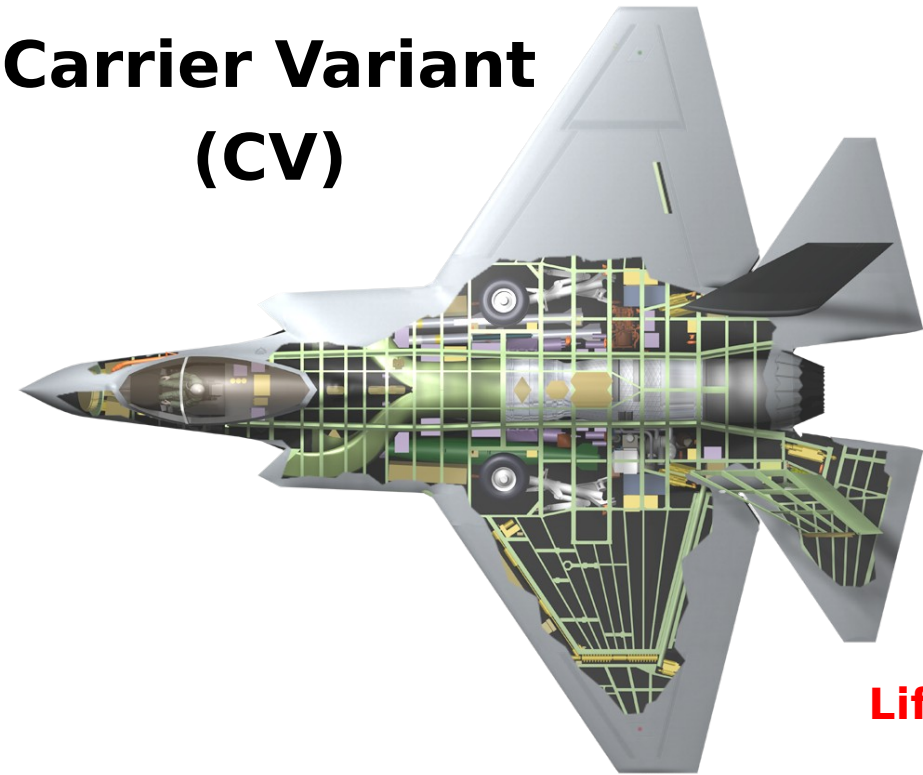
**BE THE MODEL ACQUISITION PROGRAM FOR
JOINT SERVICE AND INTERNATIONAL
COOPERATION**

DEVELOP AND PRODUCE AN **AFFORDABLE
NEXT GENERATION STRIKE FIGHTER WEAPON
SYSTEM AND SUSTAIN IT WORLDWIDE**



LOCKHEED MARTIN

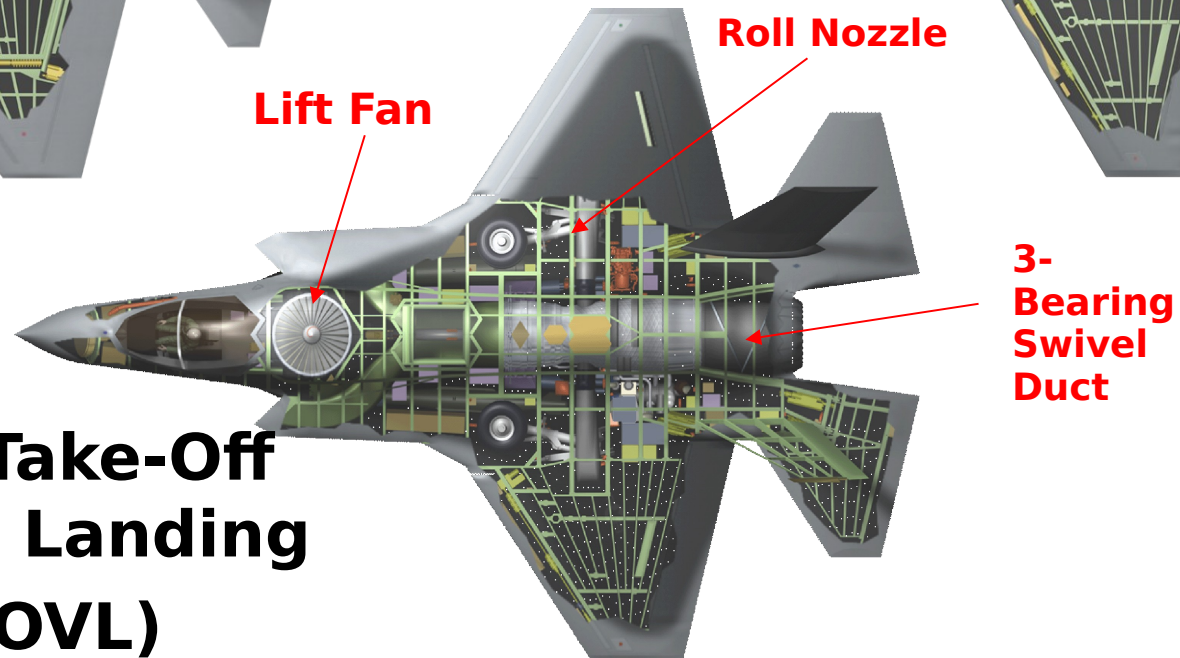
Carrier Variant (CV)



Conventional Take-Off and Landing (CTOL)

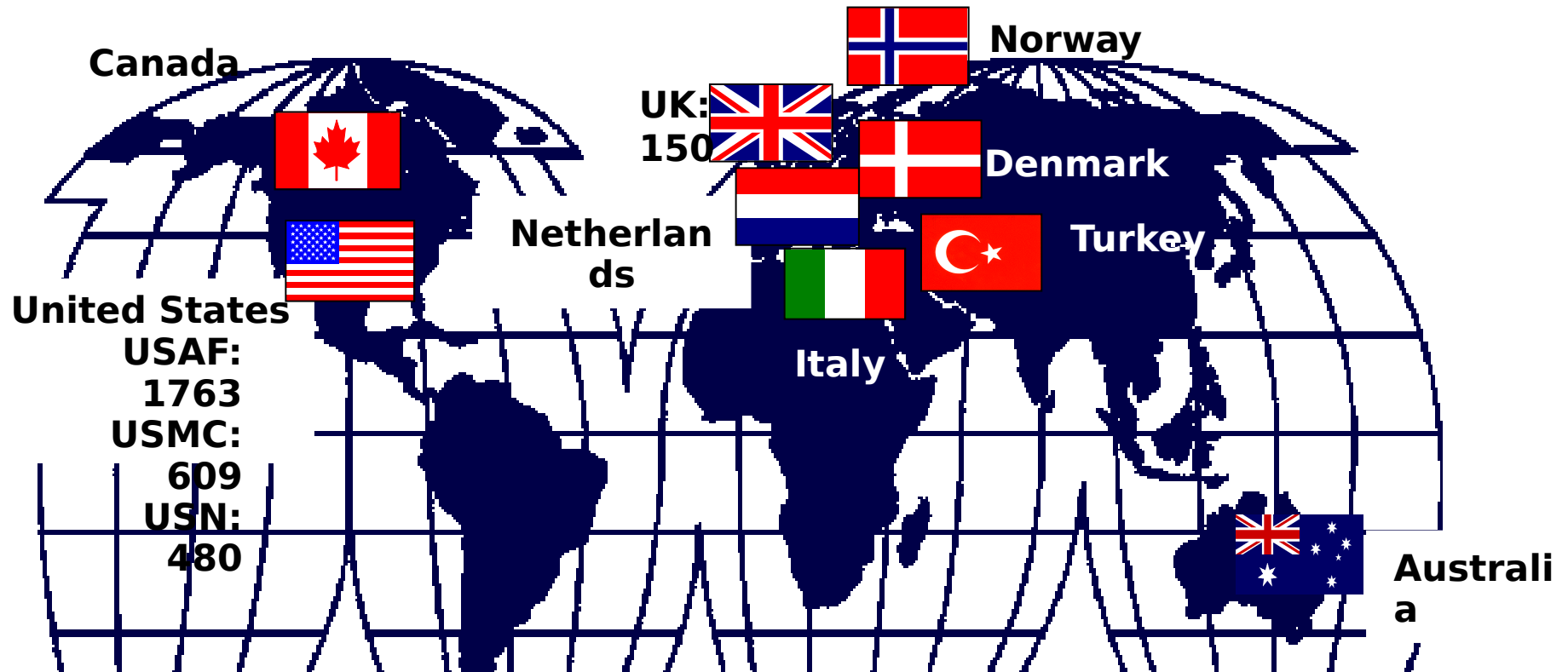


Short Take-Off Vertical Landing (STOVL)





SERVICE & INTERNATIONAL NEEDS

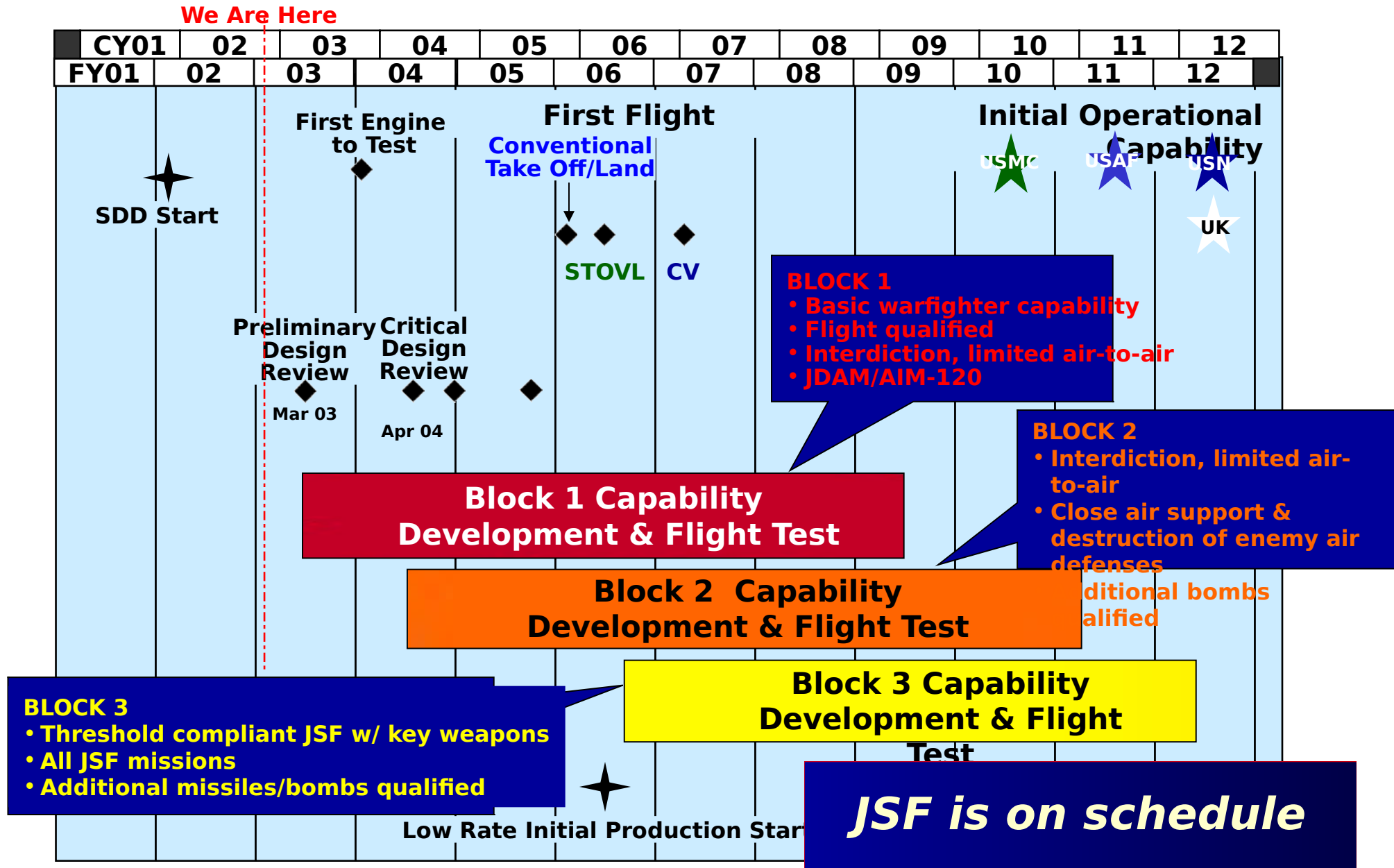


- **USN:** Multi-role, stealthy strike fighter to complement F/A-18E/F
- **USAF:** Multi-role (primary air-to-ground) fighter to replace F-16 & A-10 & to complement F/A-22
- **USMC:** Multi-role, short takeoff, vertical landing strike fighter to replace AV-8B & F/A-18C/D
- **UK (RN and RAF):** Supersonic replacement for Sea Harrier and GR-7

***3002 US/UK JSFs
> 2000 International JSFs***



SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD) SCHEDULE





KEY PERFORMANCE PARAMETERS

USMC/UK 

US 



Joint









KPP

USMC

USAF

USN

UK

 Radio Frequency Signature	Very Low Observable			
 Combat Radius	450 nm USMC Profile	590 nm USAF Profile	600 nm USN Profile	450 nm UK Profile
 Sortie Generation	4 Surg / 3 Sust	3 Surg / 2 Sust	3 Surg / 2 Sust	3 Surg / 2 Sust
 Logistics Footprint	< 8 C-17 equivalent loads (20 PAA)	< 8 C-17 equivalent loads (24 PAA)	< 46,000 cu ft 243 ST	< 21,000 cu ft 102 ST
 Mission Reliability	95%	93%	95%	95%
 Interoperability	Meet 100% of critical, top-level Information Exchange Requirements			
 STOVL Mission Performance		N/A	N/A	
Short Take-Off Distance	500'			450' ski-jump
Vertical Lift Bring Back	2 x 1K JDAM, 2 x AIM-120 With Reserve Fuel			2 x 1K JDAM, 2 x AIM-120 With Reserve Fuel
 Maximum Approach Speed	N/A	N/A	145 knots	N/A



AUTONOMIC LOGISTICS SYSTEM TECHNICAL SOLUTION

INTEGRATED SUPPORT

- Design Data □ Direct to □ Support Information
- Failure Prediction □ Remove Unit Before Failure



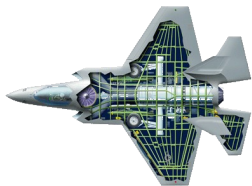
TECHNOLOGICALLY-ENABLED MAINTAINER



FLIGHT OPERATIONS

- Integration for Optimal Mission Performance
- High Sortie Generation Rate
- Low Logistics Footprint

AUTONOMIC LOGISTICS INFORMATION SYSTEM



INTELLIGENT AIR VEHICLE

- Prognostics & Health Management
- Design for Supportability
- High Reliability & Maintainability



Joint Aircrew & Maintainer Training

INTEGRATED TRAINING

- Common, Joint Pilot/Maintainer Training
- Modular, Flexible Training
- Embedded Training

Integrated JSF AL System - Affordable, Supportable, Survivable, & Lethal



JSF ENGINE INTERCHANGEABILITY

- **Physically and Functionally Interchangeable**
- **Any Aircraft Able to Use Any Engine**
- **Common JSF Autonomic Logistics System Interfaces**



PRATT & WHITNEY F135

**GE AIRCRAFT ENGINES/
ROLLS ROYCE F136**



***JSF Engines - - Common Core for
Aircraft Variants, Competition in***



INTERNATIONAL COOPERATIVE AGREEMENTS

Level I - UK Memorandum of Understanding (MOU) Signed 17 January 2001



Level II - Italy MOU Signed 24 June 2002



Netherlands MOU Signed 10 June 2002



Level III - Turkey MOU Signed 11 July 2002



Canada MOU Signed 7 February 2002



Australia MOU Signed 31 October 2002



Denmark MOU Signed 28 May 2002



Norway MOU Signed 20 June 2002





JSF SDD INTERNATIONAL BUSINESS STRATEGY



SCP Element finalizes JSF SDD International Strategy

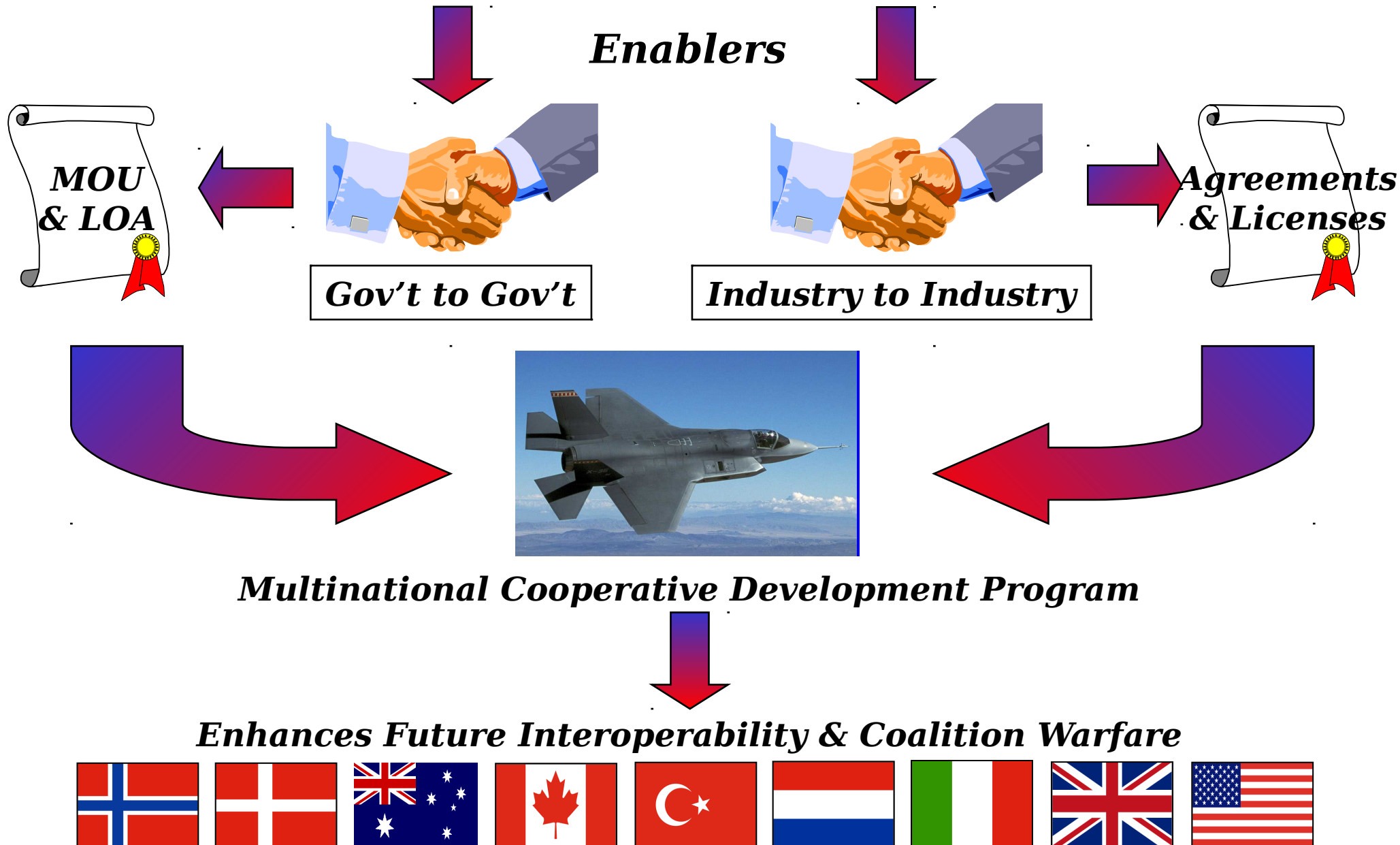


JSF SECURITY COOPERATION PARTICIPATION (SCP)

- **Permits early involvement under FMS LOA**
- **Two Phase Approach (\$25M - \$50M)**
 - Outlined in bilateral Letter of Intent (signed by National Armament Directors)
 - Phase I (approx. \$10-20M) over 2-4 year period
 - Phase II (approx. \$15-40M) over 4 year period
 - Commitment to sell a version of the JSF
- **Phase II would also include**
 - Delivery priority among future JSF FMS customers
 - Select Classified Data Release (subject to disclosure policy)
- **SCP dialogue established and preliminary discussions are ongoing with Singapore and Israel**



JSF INTERNATIONAL STRATEGY / COOPERATIVE FRAMEWORK





SUMMARY

- **Integrated Baseline Reviews (IBRs) Complete**
- **Propulsion Preliminary Design Reviews (PDRs) Complete**
- **International Cooperative Partners Signed**
- **Tracking toward Air Vehicle PDR in early 03**
- **Every Wicket, Every Day!**
- **Performance...Teamwork...Process Discipline**



WORKING TO AFFORDABLY MEET THE REQUIREMENTS OF THE WARFIGHTER

